CERES Issues for OV-10 and CV-580 in CLAMS

CLAMS Meeting (1 June 2001)
at GSFC (Green belt Scalawag Fiduciary Coven)

Tom Charlock, Bill Smith Jr., and Carl Purgold

OV-10 mostly for limited area surveys near surface

2x2 km box (planned)

and

“daisy” pattern (opportunity - patches of clear sky)

and

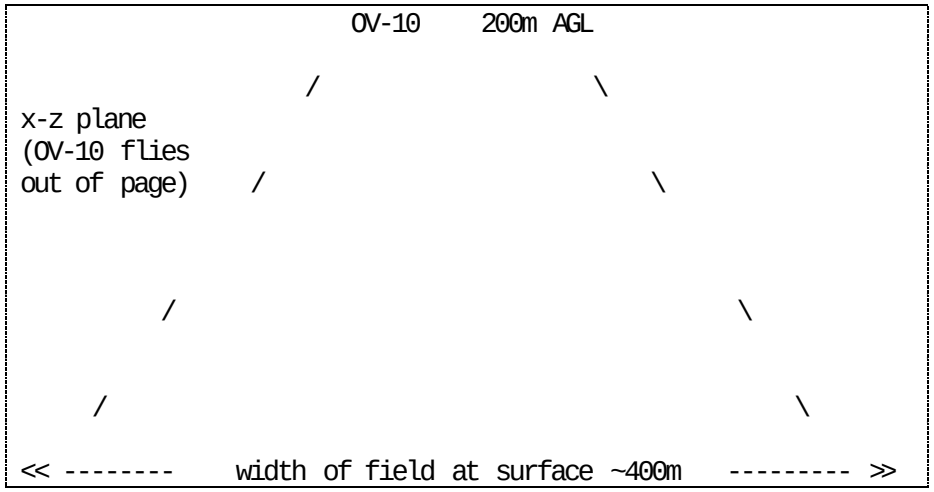
TBD pattern to match CAR BRDF flights of CV-580

Few OV-10 area surveys at altitude following flight by CV-580

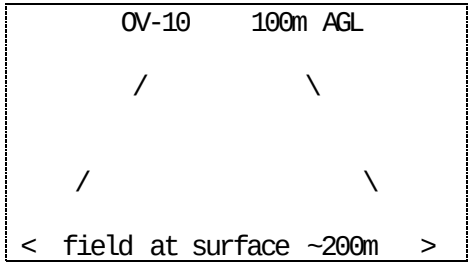
Few OV-10 line chases of CV-580 near surface

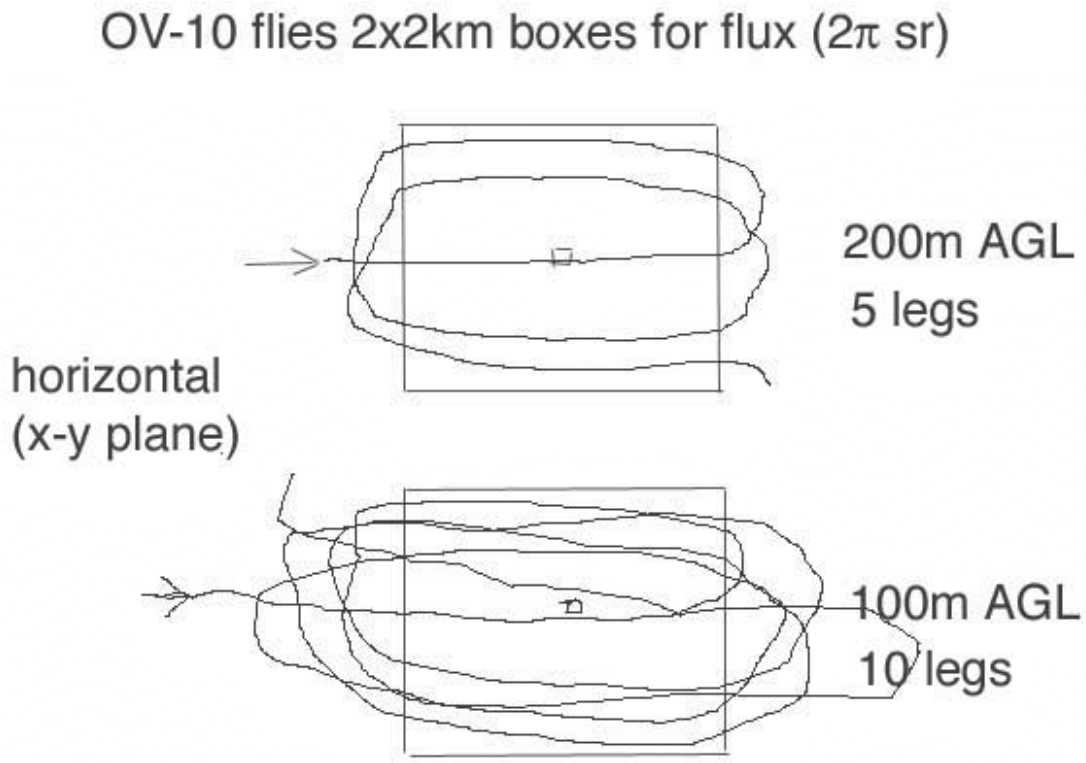
Few special CV-580 extended line flights to “blue water”

OV-10 low altitude “swath” of flux (2pi sr)
Pyranometers & ASD Field Spectrometer



x-z plane
(OV-10 flies
out of page)



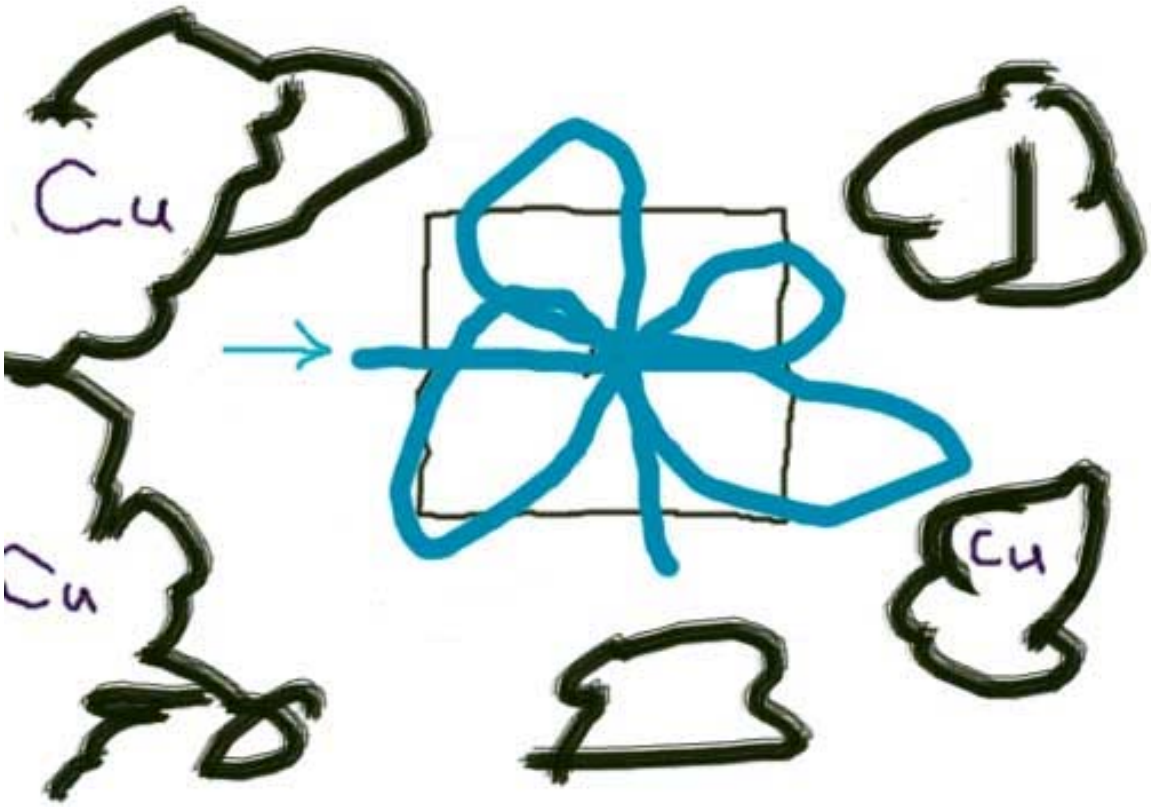


OV-10 Pyranometers & ASD Field Spectrometer

OV-10 is only near-surface spatial survey of ocean optics

Can cover 100% of a MODIS footprint for all channels

This is a “daisy” flight pattern. It would be an easy pattern for pre-CLAMS flights around COVE, as the pilot need select only one guidepoint (the center), rather than 4 guidepoints (as for a real rectangular pattern). Rob Rivers said that re-selecting multiple guidepoints would be hard after takeoff; but picking one new guidepost in flight is easy. The daisy pattern would be preferred for targets of opportunity, such as a clear patch on a cloudy day.



CERES plan for CV-580 extended flight to “blue water”

Supports AVHRR AOT retrieval by GACP and NOAA